

## Suma Bac D10

Revision: 2025-01-17

Version: 01.1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Trade name:** Suma Bac D10

UFI: TTWG-81ET-M00Q-M1S0

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                              |   |
|------------------------------|---|
| <b>Product use:</b>          | Hard surface cleaner.<br>Kitchen surface cleaner.<br>Surface disinfectant.<br>for general surface disinfection<br>for food contact surface disinfection<br>For professional use only. |
| <b>Uses advised against:</b> | Uses other than those identified are not recommended.   |

#### SWED - Sector-specific worker exposure description :

AISE\_SWED\_PW\_8a\_1  
AISE\_SWED\_PW\_10\_1  
AISE\_SWED\_PW\_11\_1  
AISE\_SWED\_PW\_19\_1

#### 1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

#### Contact details

Diversey Ltd  
Weston Favell Centre, Northampton NN3 8PD, United Kingdom  
Tel: 01604 405311, Fax: 01604 406809  
Regulatory Email: customerservice.uk@solenis.com

#### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)  
For medical or environmental emergency only:  
call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin irritation, Category 2 (H315)  
Serious eye damage, Category 1 (H318)  
Acute aquatic toxicity, Category 1 (H400)  
Chronic aquatic toxicity, Category 2 (H411)  
Corrosive to metals, Category 1 (H290)

#### 2.2 Label elements



**Signal word:** Danger.

Contains alkyl (C12-16) dimethylbenzyl ammonium chloride (Benzalkonium Chloride), alkyl alcohol ethoxylate (Trideceth 7-10)

#### Hazard statements:

H290 - May be corrosive to metals.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H410 - Very toxic to aquatic life with long lasting effects.

#### Precautionary statements:

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P280 - Wear eye or face protection.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTRE, doctor or physician.

### 2.3 Other hazards

No other hazards known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

| Ingredient(s)                                   | EC number | CAS number | REACH number         | Classification   | Notes | Weight percent |
|---|-----------|------------|----------------------|--|-------|----------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | 270-325-2 | 68424-85-1 | [6]                  | Skin corrosion, Category 1B (H314)<br>Acute toxicity - Oral, Category 4 (H302)<br>Serious eye damage, Category 1 (H318)<br>Acute aquatic toxicity, Category 1 M=10 (H400)<br>Chronic aquatic toxicity, Category 1 M=1 (H410) |       | 3-10           |
| trisodium citrate                               | 200-675-3 | 68-04-2    | [1]                  | Not classified as hazardous  |       | 3-10           |
| alkyl alcohol ethoxylate                        | [4]       | 69011-36-5 | [4]                  | Acute toxicity - Oral, Category 4 (H302)<br>Serious eye damage, Category 1 (H318)  |       | 3-10           |
| sodium carbonate                                | 207-838-8 | 497-19-8   | 01-211948549<br>8-19 | Eye irritation, Category 2 (H319)  |       | 1-3            |

Workplace exposure limit(s), if available, are listed in subsection 8.1.

ATE, if available, are listed in section 11.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|  |   |
|--|---|
| <b>Inhalation:</b>                     | Get medical attention or advice if you feel unwell.   |
| <b>Skin contact:</b>                   | Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.  |
| <b>Eye contact:</b>                    | Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician. |
| <b>Ingestion:</b>                      | Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.   |
| <b>Self-protection of first aider:</b> | Consider personal protective equipment as indicated in subsection 8.2.  |

### 4.2 Most important symptoms and effects, both acute and delayed

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | No known effects or symptoms in normal use. |
| <b>Skin contact:</b> | Causes irritation.                          |
| <b>Eye contact:</b>  | Causes severe or permanent damage.          |
| <b>Ingestion:</b>    | No known effects or symptoms in normal use. |

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

### 5.2 Special hazards arising from the substance or mixture

No special hazards known.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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Wear eye/face protection. Repeated or prolonged contact: Wear suitable gloves.

**6.2 Environmental precautions**

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

**6.3 Methods and material for containment and cleaning up**

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

**6.4 Reference to other sections**

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

No special precautions required.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advice on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe spray. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep from freezing. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

Comah - Lower Tier requirements (tonnes): 100

Comah - Upper Tier requirements (tonnes): 200

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Biological limit values, if available:

**Recommended monitoring procedures, if available:**

**Additional exposure limits under the conditions of use, if available:**

**DNEL/DMEL and PNEC values****Human exposure**

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s)                                   | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | -                          | -                             | -                         | 3.4                          |
| trisodium citrate                               | -                          | -                             | -                         | -                            |
| alkyl alcohol ethoxylate                        | -                          | -                             | -                         | -                            |
| sodium carbonate                                | -                          | -                             | -                         | -                            |

DNEL/DMEL dermal exposure - Worker

| Ingredient(s)                                   | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|----------------------------|--|---------------------------|---|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | -                          | -  | -                         | 5.7                                     |
| trisodium citrate                               | No data available          | -  | No data available         | -                                       |
| alkyl alcohol ethoxylate                        | -                          | -  | -                         | -                                       |
| sodium carbonate                                | -                          | -  | No data available         | -                                       |

DNEL/DMEL dermal exposure - Consumer

| Ingredient(s)                                   | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|----------------------------|--|---------------------------|---|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | -                          | -  | -                         | 3.4                                     |

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|                          |                   |   |                   |   |
|--------------------------|-------------------|---|-------------------|---|
|                          |                   |   |                   |   |
| trisodium citrate        | No data available | - | No data available | - |
| alkyl alcohol ethoxylate | -                 | - | -                 | - |
| sodium carbonate         | No data available | - | No data available | - |

DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

| Ingredient(s)                                   | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | -                          | -                             | -                         | 3.96                         |
| trisodium citrate                               | -                          | -                             | -                         | -                            |
| alkyl alcohol ethoxylate                        | -                          | -                             | -                         | -                            |
| sodium carbonate                                | -                          | -                             | 10                        | -                            |

DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

| Ingredient(s)                                   | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | -                          | -                             | -                         | 1.64                         |
| trisodium citrate                               | -                          | -                             | -                         | -                            |
| alkyl alcohol ethoxylate                        | -                          | -                             | -                         | -                            |
| sodium carbonate                                | 10                         | -                             | -                         | -                            |

## Environmental exposure

Environmental exposure - PNEC

| Ingredient(s)                                   | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|---|-----------------------------|------------------------------|---------------------|-------------------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | 0.0009                      | 0.00096                      | -                   | 0.4                           |
| trisodium citrate                               | 0.44                        | 0.044                        | -                   | 1000                          |
| alkyl alcohol ethoxylate                        | -                           | -                            | -                   | -                             |
| sodium carbonate                                | -                           | -                            | -                   | -                             |

Environmental exposure - PNEC, continued

| Ingredient(s)                                   | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m <sup>3</sup> ) |
|---|------------------------------|--------------------------|--------------|--------------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | 12.27                        | 13.09                    | 7            | -                        |
| trisodium citrate                               | 34.6                         | 3.46                     | 33.1         | -                        |
| alkyl alcohol ethoxylate                        | -                            | -                        | -            | -                        |
| sodium carbonate                                | -                            | -                        | -            | -                        |

## 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.  
If available, please refer to the product information sheet for application and handling instructions.  
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

## REACH use scenarios considered for the undiluted product:

|                              | SWED - Sector-specific worker exposure description | LCS | PROC    | Duration (min) | ERC   |
|------------------------------|--|-----|---------|----------------|-------|
| Manual transfer and dilution | AISE_SWED_PW_8a_1                                  | PW  | PROC 8a | 60             | ERC8a |

## Personal protective equipment

## Eye / face protection:

## Hand protection:

Safety glasses or goggles (EN 16321).

Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

## Body protection:

## Respiratory protection:

No special requirements under normal use conditions.

No special requirements under normal use conditions.

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**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (% w/w):** 5

**Appropriate engineering controls:** Provide a good standard of general ventilation.

**Appropriate organisational controls:** No special requirements under normal use conditions.

**REACH use scenarios considered for the diluted product:**

|   | SWED              | LCS | PROC    | Duration (min) | ERC   |
|---|-------------------|-----|---------|----------------|-------|
| Manual application by brushing, wiping or mopping | AISE_SWED_PW_10_1 | PW  | PROC 10 | 480            | ERC8a |
| Spray application                                 | AISE_SWED_PW_11_1 | PW  | PROC 11 | 60             | ERC8a |
| Manual application                                | AISE_SWED_PW_19_1 | PW  | PROC 19 | 480            | ERC8a |

**Personal protective equipment**

**Eye / face protection:**

No special requirements under normal use conditions.

**Hand protection:**

Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

**Body protection:**

No special requirements under normal use conditions.

**Respiratory protection:**

Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

**Physical state:** Liquid

**Colour:** Clear , Purple

**Odour:** Product specific

**Odour threshold:** Not applicable

**Melting point/freezing point (°C):** Not determined

**Initial boiling point and boiling range (°C):** Not determined

**Method / remark**

Not relevant to classification of this product

See substance data

Substance data, boiling point

| Ingredient(s)                                   | Value (°C)                        | Method           | Atmospheric pressure (hPa) |
|---|-----------------------------------|------------------|----------------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | Product decomposes before boiling |                  |                            |
| trisodium citrate                               | No data available                 |                  |                            |
| alkyl alcohol ethoxylate                        | > 200                             | Method not given |                            |
| sodium carbonate                                | 1600                              | Method not given | 1013                       |

**Method / remark**

**Flammability (solid, gas):** Not applicable to liquids

**Flammability (liquid):** Not flammable.

**Flash point (°C):** > 70 °C

**Sustained combustion:** The product does not sustain combustion  
( UN Manual of Tests and Criteria, section 32, L.2 )

**Lower and upper explosion limit/flammability limit (%):** Not determined

closed cup

Weight of evidence

See substance data

Substance data, flammability or explosive limits, if available:

**Method / remark**

**Autoignition temperature:** 600

**Decomposition temperature:** Not applicable.

**pH:** ≈ 11 (neat)

**Dilution pH:** ≈ 10 (5 %)

**Kinematic viscosity:** Not determined

**Solubility in / Miscibility with water:** Fully miscible

ISO 4316

ISO 4316

DM-006 Viscosity - Standard

Substance data, solubility in water

| Ingredient(s)                                   | Value (g/l)       | Method            | Temperature (°C) |
|---|-------------------|-------------------|------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | Soluble           | OECD 105 (EU A.6) | 10               |
| trisodium citrate                               | No data available |                   |                  |

|                          |         |                  |    |
|--------------------------|---------|------------------|----|
| alkyl alcohol ethoxylate | Soluble | Method not given | 20 |
| sodium carbonate         | 210-215 | Method not given | 20 |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

**Vapour pressure:** Not determined

**Method / remark**

See substance data

Substance data, vapour pressure

| Ingredient(s)                                   | Value (Pa)        | Method            | Temperature (°C) |
|---|-------------------|-------------------|------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | 0.006             | OECD 104 (EU A.4) | 25               |
| trisodium citrate                               | No data available |                   |                  |
| alkyl alcohol ethoxylate                        | Negligible        | Method not given  | 20-25            |
| sodium carbonate                                | Negligible        |                   |                  |

**Relative density:**  $\approx 1.05$  (20 °C)

**Relative vapour density:** -

**Particle characteristics:** No data available.

**Method / remark**

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

**9.2 Other information**

**9.2.1 Information with regard to physical hazard classes**

**Explosive properties:** Not explosive. Vapours may form explosive mixtures with air.

**Oxidising properties:** Not oxidising.

**Corrosion to metals:** Corrosive

**9.2.2 Other safety characteristics**

No other relevant information available.

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

May be corrosive to metals.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Mixture data: .

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >2000

**Skin irritation and corrosivity**

**Result:** Skin irritant 2

**Species:** Not applicable

**Method:** Weight of evidence

Substance data, where relevant and available, are listed below:.

**Acute toxicity**

Acute oral toxicity

| Ingredient(s)                                   | Endpoint         | Value (mg/kg) | Species | Method            | Exposure time (h) | ATE Oral (mg/kg) |
|---|------------------|---------------|---------|-------------------|-------------------|------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | LD <sub>50</sub> | > 300-2000    | Rat     | OECD 401 (EU B.1) |                   | Not established  |

|                          |                  |            |     |                        |  |                 |
|--------------------------|------------------|------------|-----|------------------------|--|-----------------|
| trisodium citrate        | LD <sub>50</sub> | 5400       |     | OECD 401 (EU B.1)      |  | Not established |
| alkyl alcohol ethoxylate | LD <sub>50</sub> | > 300-2000 | Rat | OECD 423 (EU B.1 tris) |  | Not established |
| sodium carbonate         | LD <sub>50</sub> | 2800       | Rat | OECD 401 (EU B.1)      |  | 2800            |

## Acute dermal toxicity

| Ingredient(s)                                   | Endpoint         | Value (mg/kg)     | Species | Method           | Exposure time (h) | ATE Dermal (mg/kg) |
|---|------------------|-------------------|---------|------------------|-------------------|--------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride |                  | No data available |         |                  |                   | Not established    |
| trisodium citrate                               |                  | No data available |         |                  |                   | Not established    |
| alkyl alcohol ethoxylate                        | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given |                   | Not established    |
| sodium carbonate                                | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given |                   | Not established    |

## Acute inhalative toxicity

| Ingredient(s)                                   | Endpoint         | Value (mg/l)      | Species | Method             | Exposure time (h) |
|---|------------------|-------------------|---------|--------------------|-------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride |                  | No data available |         |                    |                   |
| trisodium citrate                               |                  | No data available |         |                    |                   |
| alkyl alcohol ethoxylate                        |                  | No data available |         |                    |                   |
| sodium carbonate                                | LC <sub>50</sub> | > 2.3 (dust)      |         | Weight of evidence | 2                 |

## Acute inhalative toxicity, continued

| Ingredient(s)                                   | ATE - inhalation, dust (mg/l) | ATE - inhalation, mist (mg/l) | ATE - inhalation, vapour (mg/l) | ATE - inhalation, gas (mg/l) |
|---|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | Not established               | Not established               | Not established                 | Not established              |
| trisodium citrate                               | Not established               | Not established               | Not established                 | Not established              |
| alkyl alcohol ethoxylate                        | Not established               | Not established               | Not established                 | Not established              |
| sodium carbonate                                | Not established               | Not established               | Not established                 | Not established              |

## Irritation and corrosivity

## Skin irritation and corrosivity

| Ingredient(s)                                   | Result            | Species | Method            | Exposure time |
|---|-------------------|---------|-------------------|---------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | Corrosive         | Rabbit  |                   |               |
| trisodium citrate                               | No data available |         |                   |               |
| alkyl alcohol ethoxylate                        | Not irritant      | Rabbit  | OECD 404 (EU B.4) |               |
| sodium carbonate                                | Not irritant      | Rabbit  | OECD 404 (EU B.4) |               |

## Eye irritation and corrosivity

| Ingredient(s)                                   | Result            | Species | Method            | Exposure time |
|---|-------------------|---------|-------------------|---------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | Severe damage     | Rabbit  |                   |               |
| trisodium citrate                               | No data available |         |                   |               |
| alkyl alcohol ethoxylate                        | Severe damage     | Rabbit  | Method not given  |               |
| sodium carbonate                                | Irritant          | Rabbit  | OECD 405 (EU B.5) |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)                                   | Result            | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | No data available |         |        |               |
| trisodium citrate                               | No data available |         |        |               |
| alkyl alcohol ethoxylate                        | No data available |         |        |               |
| sodium carbonate                                | No data available |         |        |               |

## Sensitisation

## Sensitisation by skin contact

| Ingredient(s)                                   | Result            | Species    | Method                           | Exposure time (h) |
|---|-------------------|------------|----------------------------------|-------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / Buehler test |                   |
| trisodium citrate                               | No data available |            |                                  |                   |
| alkyl alcohol ethoxylate                        | Not sensitising   | Guinea pig | Method not given                 |                   |
| sodium carbonate                                | Not sensitising   |            | Method not given                 |                   |

## Sensitisation by inhalation

| Ingredient(s)                                   | Result            | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | No data available |         |        |               |
| trisodium citrate                               | No data available |         |        |               |

|                          |                   |  |  |  |
|--------------------------|-------------------|--|--|--|
| alkyl alcohol ethoxylate | No data available |  |  |  |
| sodium carbonate         | No data available |  |  |  |

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Mutagenicity**

| Ingredient(s)                                   | Result (in-vitro)                                  | Method (in-vitro) | Result (in-vivo)                                   | Method (in-vivo) |
|---|--|-------------------|--|------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | No data available                                  |                   | No data available                                  |                  |
| trisodium citrate                               | No data available                                  |                   | No data available                                  |                  |
| alkyl alcohol ethoxylate                        | No evidence of genotoxicity, negative test results | Method not given  | No evidence of genotoxicity, negative test results | Method not given |
| sodium carbonate                                | No data available                                  |                   | No data available                                  |                  |

**Carcinogenicity**

| Ingredient(s)                                   | Effect  |
|---|---|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | No data available                                   |
| trisodium citrate                               | No data available                                   |
| alkyl alcohol ethoxylate                        | No evidence for carcinogenicity, weight-of-evidence |
| sodium carbonate                                | No evidence for carcinogenicity, weight-of-evidence |

**Toxicity for reproduction**

| Ingredient(s)                                   | Endpoint | Specific effect     | Value (mg/kg bw/d) | Species | Method    | Exposure time | Remarks and other effects reported               |
|---|----------|---------------------|--------------------|---------|-----------|---------------|--|
| alkyl (C12-16) dimethylbenzyl ammonium chloride |          |                     | No data available  |         |           |               |  |
| trisodium citrate                               |          |                     | No data available  |         |           |               |  |
| alkyl alcohol ethoxylate                        | NOAEL    | Teratogenic effects | > 50               | Rat     | Not known |               | No known significant effects or critical hazards |
| sodium carbonate                                |          |                     | No data available  |         |           |               |  |

**Repeated dose toxicity****Sub-acute or sub-chronic oral toxicity**

| Ingredient(s)                                   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride |          | No data available  |         |        |                      |                                      |
| trisodium citrate                               |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate                        |          | No data available  |         |        |                      |                                      |
| sodium carbonate                                |          | No data available  |         |        |                      |                                      |

**Sub-chronic dermal toxicity**

| Ingredient(s)                                   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride |          | No data available  |         |        |                      |                                      |
| trisodium citrate                               |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate                        |          | No data available  |         |        |                      |                                      |
| sodium carbonate                                |          | No data available  |         |        |                      |                                      |

**Sub-chronic inhalation toxicity**

| Ingredient(s)                                   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride |          | No data available  |         |        |                      |                                      |
| trisodium citrate                               |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate                        |          | No data available  |         |        |                      |                                      |
| sodium carbonate                                |          | No data available  |         |        |                      |                                      |

**Chronic toxicity**

| Ingredient(s) | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|---------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
|---------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|



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|   |      |       |                   |     |                  |             |                          |  |
|---|------|-------|-------------------|-----|------------------|-------------|--------------------------|--|
| alkyl (C12-16) dimethylbenzyl ammonium chloride |      |       | No data available |     |                  |             |                          |  |
| trisodium citrate                               |      |       | No data available |     |                  |             |                          |  |
| alkyl alcohol ethoxylate                        | Oral | NOAEL | 50                | Rat | Method not given | 24 month(s) | Effects on organ weights |  |
| sodium carbonate                                |      |       | No data available |     |                  |             |                          |  |

## STOT-single exposure

| Ingredient(s)                                   | Affected organ(s) |
|---|-------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | No data available |
| trisodium citrate                               | No data available |
| alkyl alcohol ethoxylate                        | Not applicable    |
| sodium carbonate                                | Not applicable    |

## STOT-repeated exposure

| Ingredient(s)                                   | Affected organ(s) |
|---|-------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | No data available |
| trisodium citrate                               | No data available |
| alkyl alcohol ethoxylate                        | Not applicable    |
| sodium carbonate                                | Not applicable    |

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## 11.2 Information on other hazards

## 11.2.1 Endocrine disrupting properties

Endocrine disrupting properties - Human data, if available:

## 11.2.2 Other information

No other relevant information available.

## SECTION 12: Ecological information

## 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

## Aquatic short-term toxicity

Aquatic short-term toxicity - fish

| Ingredient(s)                                   | Endpoint         | Value (mg/l) | Species                    | Method                 | Exposure time (h) |
|---|------------------|--------------|----------------------------|------------------------|-------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | LC <sub>50</sub> | > 0.1-1      | <i>Lepomis macrochirus</i> | OPP 72-1, static (EPA) | 96                |
| trisodium citrate                               | LC <sub>50</sub> | 10           |                            | Weight of evidence     |                   |
| alkyl alcohol ethoxylate                        | LC <sub>50</sub> | > 1 - 10     | <i>Cyprinus carpio</i>     | OECD 203 (EU C.1)      | 96                |
| sodium carbonate                                | LC <sub>50</sub> | 300          | <i>Lepomis macrochirus</i> | Method not given       | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)                                   | Endpoint         | Value (mg/l) | Species                     | Method             | Exposure time (h) |
|---|------------------|--------------|-----------------------------|--------------------|-------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | EC <sub>50</sub> | > 0.01-0.1   | <i>Daphnia magna</i> Straus | OECD 202 (EU C.2)  | 48                |
| trisodium citrate                               | EC <sub>50</sub> | > 50         |                             | Weight of evidence |                   |
| alkyl alcohol ethoxylate                        | EC <sub>50</sub> | 1 - 10       | <i>Daphnia magna</i> Straus | OECD 202, static   | 48                |
| sodium carbonate                                | EC <sub>50</sub> | 200-227      | <i>Ceriodaphnia dubia</i>   | Method not given   | 96                |

Aquatic short-term toxicity - algae

| Ingredient(s)                                   | Endpoint         | Value (mg/l) | Species               | Method            | Exposure time (h) |
|---|------------------|--------------|-----------------------|-------------------|-------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | EC <sub>50</sub> | > 0.01-0.1   | <i>Pseudokirchner</i> | OECD 201 (EU C.3) | 72                |

|                          |                  |        |                                  |                    |    |
|--------------------------|------------------|--------|----------------------------------|--------------------|----|
|                          |                  |        | <i>ella subcapitata</i>          |                    |    |
| trisodium citrate        | EC <sub>50</sub> | 425    |                                  | Weight of evidence |    |
| alkyl alcohol ethoxylate | EC <sub>50</sub> | 1 - 10 | <i>Desmodesmus subspicatus</i>   | OECD 201, static   | 72 |
| sodium carbonate         | EC <sub>50</sub> | > 800  | <i>Selenastrum capricornutum</i> |                    | 72 |

## Aquatic short-term toxicity - marine species

| Ingredient(s)                                   | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|---|----------|-------------------|---------|--------|----------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride |          | No data available |         |        |                      |
| trisodium citrate                               |          | No data available |         |        |                      |
| alkyl alcohol ethoxylate                        |          | No data available |         |        |                      |
| sodium carbonate                                |          | No data available |         |        |                      |

## Impact on sewage plants - toxicity to bacteria

| Ingredient(s)                                   | Endpoint         | Value (mg/l)      | Inoculum                | Method             | Exposure time |
|---|------------------|-------------------|-------------------------|--------------------|---------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride |                  | No data available |                         |                    |               |
| trisodium citrate                               |                  | No data available |                         |                    |               |
| alkyl alcohol ethoxylate                        | EC <sub>10</sub> | > 10000           | <i>Activated sludge</i> | DIN 38412 / Part 8 | 17 hour(s)    |
| sodium carbonate                                |                  | No data available |                         |                    |               |

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

| Ingredient(s)                                   | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|---------|--------|---------------|------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride |          | No data available |         |        |               |                  |
| trisodium citrate                               |          | No data available |         |        |               |                  |
| alkyl alcohol ethoxylate                        |          | No data available |         |        |               |                  |
| sodium carbonate                                |          | No data available |         |        |               |                  |

## Aquatic long-term toxicity - crustacea

| Ingredient(s)                                   | Endpoint | Value (mg/l)      | Species              | Method   | Exposure time | Effects observed |
|---|----------|-------------------|----------------------|----------|---------------|------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | NOEC     | > 0.01-0.1        | <i>Daphnia magna</i> | OECD 211 | 21 day(s)     |                  |
| trisodium citrate                               |          | No data available |                      |          |               |                  |
| alkyl alcohol ethoxylate                        |          | No data available |                      |          |               |                  |
| sodium carbonate                                |          | No data available |                      |          |               |                  |

## Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s)                                   | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|---|----------|---------------------------|---------|--------|----------------------|------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride |          | No data available         |         |        |                      |                  |
| trisodium citrate                               |          | No data available         |         |        |                      |                  |
| alkyl alcohol ethoxylate                        |          | No data available         |         |        |                      |                  |
| sodium carbonate                                |          | No data available         |         |        |                      |                  |

## Terrestrial toxicity

## Terrestrial toxicity - soil invertebrates, including earthworms, if available:

| Ingredient(s)            | Endpoint | Value (mg/kg dw soil) | Species               | Method | Exposure time (days) | Effects observed |
|--------------------------|----------|-----------------------|-----------------------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate | NOEC     | 220                   | <i>Eisenia fetida</i> |        |                      |                  |
| sodium carbonate         |          | No data               |                       |        |                      |                  |

|  |  |           |  |  |  |  |
|--|--|-----------|--|--|--|--|
|  |  | available |  |  |  |  |
|--|--|-----------|--|--|--|--|

Terrestrial toxicity - plants, if available:

| Ingredient(s)            | Endpoint | Value (mg/kg dw soil) | Species                 | Method   | Exposure time (days) | Effects observed |
|--------------------------|----------|-----------------------|-------------------------|----------|----------------------|------------------|
| alkyl alcohol ethoxylate | NOEC     | 10                    | <i>Lepidium sativum</i> | OECD 208 |                      |                  |
| sodium carbonate         |          | No data available     |                         |          |                      |                  |

Terrestrial toxicity - birds, if available:

| Ingredient(s)    | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-------------------|---------|--------|----------------------|------------------|
| sodium carbonate |          | No data available |         |        |                      |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium carbonate |          | No data available     |         |        |                      |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium carbonate |          | No data available     |         |        |                      |                  |

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s)    | Half-life time    | Method | Evaluation | Remark |
|------------------|-------------------|--------|------------|--------|
| sodium carbonate | No data available |        |            |        |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s)    | Half-life time in fresh water | Method | Evaluation           | Remark |
|------------------|-------------------------------|--------|----------------------|--------|
| sodium carbonate | No data available             |        | Rapidly hydrolysible |        |

Abiotic degradation - other processes, if available:

| Ingredient(s)    | Type | Half-life time    | Method | Evaluation | Remark |
|------------------|------|-------------------|--------|------------|--------|
| sodium carbonate |      | No data available |        |            |        |

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)                                   | Inoculum                 | Analytical method          | DT <sub>50</sub>    | Method    | Evaluation                           |
|---|--------------------------|----------------------------|---------------------|-----------|--------------------------------------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | Activated sludge, aerobe | Oxygen depletion           | 63% in 28 day(s)    | OECD 301D | Readily biodegradable                |
| trisodium citrate                               |                          | DOC reduction              | 97 % in 28 day(s)   | OECD 301E | Readily biodegradable                |
| alkyl alcohol ethoxylate                        | Activated sludge, aerobe | CO <sub>2</sub> production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable                |
| sodium carbonate                                |                          |                            |                     |           | Not applicable (inorganic substance) |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s)    | Medium & Type | Analytical method | DT <sub>50</sub> | Method | Evaluation        |
|------------------|---------------|-------------------|------------------|--------|-------------------|
| sodium carbonate |               |                   |                  |        | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s)    | Medium & Type | Analytical method | DT <sub>50</sub> | Method | Evaluation        |
|------------------|---------------|-------------------|------------------|--------|-------------------|
| sodium carbonate |               |                   |                  |        | No data available |

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s)                 | Value | Method   | Evaluation                  | Remark   |
|-------------------------------|-------|----------|-----------------------------|----------|
| alkyl (C12-16) dimethylbenzyl | < 3   | OECD 107 | No bioaccumulation expected | at 20 °C |

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|                          |                   |      |                             |  |
|--------------------------|-------------------|------|-----------------------------|--|
| ammonium chloride        |                   |      |                             |  |
| trisodium citrate        | < 0               |      | No bioaccumulation expected |  |
| alkyl alcohol ethoxylate | 4.09              | QSAR | No bioaccumulation expected |  |
| sodium carbonate         | No data available |      | No bioaccumulation expected |  |

## Bioconcentration factor (BCF)

| Ingredient(s)                                   | Value             | Species | Method | Evaluation                  | Remark |
|---|-------------------|---------|--------|-----------------------------|--------|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | No data available |         |        |                             |        |
| trisodium citrate                               | 3.2               |         |        | No bioaccumulation expected |        |
| alkyl alcohol ethoxylate                        | -                 |         |        | No bioaccumulation expected |        |
| sodium carbonate                                | No data available |         |        | No bioaccumulation expected |        |

## 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s)                                   | Adsorption coefficient<br>Log K <sub>oc</sub> | Desorption coefficient<br>Log K <sub>oc</sub> (des) | Method | Soil/sediment type | Evaluation                                       |
|---|---|---|--------|--------------------|--|
| alkyl (C12-16) dimethylbenzyl ammonium chloride | No data available                             |   |        |                    |  |
| trisodium citrate                               | No data available                             |   |        |                    |  |
| alkyl alcohol ethoxylate                        | No data available                             |   |        |                    | Immobile in soil or sediment                     |
| sodium carbonate                                | No data available                             |   |        |                    | Potential for mobility in soil, soluble in water |

## 12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

## 12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

## 12.7 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Waste from residues / unused products:

European Waste Catalogue:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

16 03 05\* - organic wastes containing dangerous substances.

Empty packaging

Recommendation:

Suitable cleaning agents:

Dispose of observing national or local regulations.

Water, if necessary with cleaning agent.

## SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number: 3267

14.2 UN proper shipping name:

Corrosive liquid, basic, organic, n.o.s. ( alkyl dimethylbenzyl ammonium chloride , trisodium citrate )

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user: None known.

14.7 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers.

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## Other relevant information:

## ADR

Classification code: C7

Tunnel restriction code: (E)

Hazard identification number: 80

## IMO/IMDG

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations :**

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Regulation (EC) 648/2004 - Detergents regulation (UK amended)
- Biocidal Products Regulations 2001 (SI 2001/880)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

**Ingredients according to Detergents Regulation**

non-ionic surfactants

5 - 15 %

disinfectants

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Comah - classification:** E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

**SECTION 16: Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

SDS code: MS1005142

Version: 01.1

Revision: 2025-01-17

**Reason for revision:**

This data sheet contains changes from the previous version in section(s): 3, 4, 6, 8, 9, 11, 12, 16

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic

**Suma Bac D10**

- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.

**End of Safety Data Sheet**